

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-13. (Cancelled).

14. (Currently amended) A posterior vertebral support assembly, comprising:
an interspinous wedge configured to ~~engage with and~~ be inserted between the spinous processes of two vertebrae, wherein the wedge includes:
first and second opposing ends, each shaped to engage with and to receive the respective spinous processes,
first and second lateral sides extending from the first end to the second end, and
at least one elastically deformable zone;
two compressive lateral elements disposed on either lateral side of the wedge in a longitudinal direction, wherein the compressive lateral elements are deformable between releasing positions and compressive positions; and
two lateral transmission elements disposed between the compressive lateral elements and the wedge, and configured to selectively press against the lateral sides of the wedge substantially midway between the first and second ends in the transverse direction near the elastically deformable zone,
wherein the lateral transmission elements are bosses disposed between the compressive lateral elements and the wedge.

15. (Previously presented) The support assembly of claim 14 wherein the zone has a limit of compressibility in the transverse direction, and wherein the limit is reached at a predetermined tilted position.

16. (Previously presented) The support assembly of claim 14 wherein the compressive lateral elements have a limit of deformation in the transverse direction, and wherein the limit is reached at a predetermined tilted position.

17. (Previously presented) The support assembly of claim 14 wherein the compressive lateral elements are elastically deformable between the releasing and compressive positions.

18. (Previously presented) The support assembly of claim 14 wherein the compressive lateral elements are elastically deformable generally along an axis of the spine.

19. (Currently amended) The support assembly of claim 14 wherein the compressive lateral elements are independent of one another, and wherein each element is ~~connected~~ connectable to a treated vertebra with one end and to another treated vertebra by its other end.

20. (Previously presented) The support assembly of claim 14 wherein the compressive lateral elements include eyelets or anchorage pieces designed to receive pedicular anchorage screws.

21. (Previously presented) The support assembly of claim 14 wherein the compressive lateral elements are adapted to pass beneath the laminae of the overlying vertebra.

22-25. (Cancelled).

26. (Previously presented) The support assembly of claim 14 wherein the compressive lateral elements are deformable between releasing positions, which they occupy when the vertebrae are in lordosis or when the spinal column is extended, and wherein they are relatively spaced apart from the wedge in the transverse direction, and compressive positions, which they occupy when the spinal column is in flexion, and wherein they are relatively close to the wedge in the transverse direction.

27. (Previously presented) The support assembly of claim 26 wherein the two lateral transmission elements are disposed in a manner to press against the wedge in the transverse direction when the compressive lateral elements are displaced in said compressive position.

28. (Currently amended) A posterior vertebral support assembly, comprising:
an interspinous wedge configured to be inserted between the spinous processes of two vertebrae, wherein the wedge includes:

first and second opposing ends, each shaped to engage with and to receive the respective spinous processes,

first and second lateral sides extending from the first end to the second end, and

at least one elastically deformable zone;

a circular strap engageable round at least two spinous processes and the wedge, the strap forming a first and a second compressive lateral element disposed on opposing lateral sides of the wedge, the first and second compressive lateral elements being configured to maintain the position of the wedge; and

first and second lateral transmission elements disposed respectively between the first compressive lateral element and the wedge and the second compressive lateral element and the wedge, the first and second lateral transmission elements being adapted to press against the lateral sides of the wedge substantially midway between the first and second ends in the transverse direction in response to forces applied by the first and second compressive lateral elements,

wherein the first and second lateral transmission elements are each a small bar disposed between the compressive lateral elements and the wedge.

29-32. (Cancelled).

33. (Previously presented) The support assembly of claim 28 wherein the wedge comprises two curved recesses with each recess bounded by two lugs, the lugs and recesses adapted to broadly envelope the spinous processes.

34. (Cancelled).

35. (New) The support assembly of claim 28, wherein each small bar is connected to a support plate configured to transfer force from the lateral transmission elements to the elastically deformable zone.

36. (New) A posterior vertebral support assembly, comprising:
an interspinous wedge having:

- a first end with a saddle-shaped receiver sized to receive and engage a spinous process of a first and vertebra,

- a second end longitudinally opposite the first end with a saddle-shaped receiver sized to receive and engage a spinous process of a second vertebra,

- an elastically deformable zone between the saddle-shaped receivers;

- a first lateral side adjacent the deformable zone,

- a second lateral side adjacent the deformable zone and opposite the first lateral side, the distance between the first and second ends being greater than the distance between the first and second lateral sides,

- first and second longitudinally extending compressive lateral elements disposed adjacent to and spaced apart from the lateral sides of the interspinous wedge, the compressive lateral elements being deformable between releasing positions and compressive positions and each being sized to extend from the first vertebra to the second vertebra and being shaped to connect to both the first vertebra and the second vertebra; and

- two lateral transmission elements respectively disposed between the compressive lateral elements and the lateral sides of the deformable zone between the saddle-shaped

receivers, the two lateral transmission elements being configured to selectively increase and decrease loading against the lateral sides of the wedge in the transverse direction near the elastically deformable zone when the compressive lateral elements move between the releasing and compressive positions.

37. (New) The support assembly of claim 36 wherein the compressive lateral elements include eyelets or anchorage pieces designed to receive pedicle screws that connect the lateral transmission elements to the first and the second vertebrae.